

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 101 032, 037C
Source: IFW16
Date Processed by STIC: 4-22-05

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 04/22/2005

PATENT APPLICATION: US/10/032,037C

TIME: 07:54:31

Input Set : A:\10793-44.app

Output Set: N:\CRF4\04222005\J032037C.raw

(pg. 6)

```

3 <110> APPLICANT: LEVANON, AVIGDOR
4   HAGAY, YOCHVED
5   PLAKSIN, DANIEL
6   VOGEL, TIKVA
7   NIMROD, ABRAHAM
8   MAR-HAIM, HAGIT
9   SZANTHON, ESTER
10  RICHTER, TAMAR
11  AMIT, BOAZ
12  COOPERMAN, LENA
13  PERETZ, TUVIA
14  LAZAROVITS, JANETTE
16 <120> TITLE OF INVENTION: Y1 - ISOLATED MOLECULES COMPRISING EPITOPES
17   CONTAINING SULFATED MOIETIES, ANTIBODIES TO SUCH
18   EPITOPES, AND USES THEREOF
20 <130> FILE REFERENCE: 10793/44
22 <140> CURRENT APPLICATION NUMBER: 10/032,037C
23 <141> CURRENT FILING DATE: 2001-12-31
25 <150> PRIOR APPLICATION NUMBER: 60/258,948
26 <151> PRIOR FILING DATE: 2000-12-29
28 <160> NUMBER OF SEQ ID NOS: 270
30 <170> SOFTWARE: PatentIn Ver. 3.3
32 <210> SEQ ID NO: 1
33 <211> LENGTH: 10
34 <212> TYPE: PRT
35 <213> ORGANISM: Homo sapiens
37 <400> SEQUENCE: 1
38 Ser Ser Tyr Thr Ser Ser Ser Thr Leu Val
39  1             5             10
42 <210> SEQ ID NO: 2
43 <211> LENGTH: 10
44 <212> TYPE: PRT
45 <213> ORGANISM: Homo sapiens
47 <400> SEQUENCE: 2
48 Ser Ser Tyr Thr Ser Ser Ser Thr Leu Gly
49  1             5             10
52 <210> SEQ ID NO: 3
53 <211> LENGTH: 9
54 <212> TYPE: PRT
55 <213> ORGANISM: Homo sapiens
57 <400> SEQUENCE: 3
58 Gln Ser Tyr Asp Ser Asn Leu Arg Val
59  1             5

```

RAW SEQUENCE LISTING

DATE: 04/22/2005

PATENT APPLICATION: US/10/032,037C

TIME: 07:54:31

Input Set : A:\10793-44.app

Output Set: N:\CRF4\04222005\J032037C.raw

```

62 <210> SEQ ID NO: 4
63 <211> LENGTH: 8
64 <212> TYPE: PRT
65 <213> ORGANISM: Homo sapiens
67 <400> SEQUENCE: 4
68 Gln Gln Leu Asn Ser Tyr Pro Thr
69   1               5
72 <210> SEQ ID NO: 5
73 <211> LENGTH: 11
74 <212> TYPE: PRT
75 <213> ORGANISM: Homo sapiens
77 <400> SEQUENCE: 5
78 Asn Ser Arg Asp Ser Ser Gly Phe Gln Leu Val
79   1               5               10
82 <210> SEQ ID NO: 6
83 <211> LENGTH: 9
84 <212> TYPE: PRT
85 <213> ORGANISM: Homo sapiens
87 <400> SEQUENCE: 6
88 Gln Gln Ala Asn Ser Phe Pro Ile Thr
89   1               5
92 <210> SEQ ID NO: 7
93 <211> LENGTH: 111
94 <212> TYPE: PRT
95 <213> ORGANISM: Homo sapiens
97 <400> SEQUENCE: 7
98 Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr
99   1               5               10               15
101 Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser
102               20               25               30
104 Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly
105               35               40               45
107 Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser
108               50               55               60
110 Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp
111   65               70               75               80
113 Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val
114               85               90               95
116 Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Ala Ala Ala
117               100               105               110
120 <210> SEQ ID NO: 8
121 <211> LENGTH: 6
122 <212> TYPE: PRT
123 <213> ORGANISM: Homo sapiens
125 <400> SEQUENCE: 8
126 Met Arg Ala Pro Val Ile
127   1               5
130 <210> SEQ ID NO: 9
131 <211> LENGTH: 8

```

RAW SEQUENCE LISTING

DATE: 04/22/2005

PATENT APPLICATION: US/10/032,037C

TIME: 07:54:31

Input Set : A:\10793-44.app

Output Set: N:\CRF4\04222005\J032037C.raw

```

132 <212> TYPE: PRT
133 <213> ORGANISM: Homo sapiens
135 <400> SEQUENCE: 9
136 Pro Trp Asp Asp Val Thr Pro Pro
137 1 5
140 <210> SEQ ID NO: 10
141 <211> LENGTH: 12
142 <212> TYPE: PRT
143 <213> ORGANISM: Homo sapiens
145 <400> SEQUENCE: 10
146 Gly Phe Pro Arg Ile Thr Pro Pro Ser Ala Glu Ile
147 1 5 10
150 <210> SEQ ID NO: 11
151 <211> LENGTH: 5
152 <212> TYPE: PRT
153 <213> ORGANISM: Homo sapiens
155 <400> SEQUENCE: 11
156 Gly Phe Pro Met Pro
157 1 5
160 <210> SEQ ID NO: 12
161 <211> LENGTH: 10
162 <212> TYPE: PRT
163 <213> ORGANISM: Homo sapiens
165 <400> SEQUENCE: 12
166 Gly Phe Pro His Ser Ser Ser Val Ser Arg
167 1 5 10
170 <210> SEQ ID NO: 13
171 <211> LENGTH: 11
172 <212> TYPE: PRT
173 <213> ORGANISM: Homo sapiens
175 <400> SEQUENCE: 13
176 Arg Phe Pro Met Arg His Glu Lys Thr Asn Tyr
177 1 5 10
180 <210> SEQ ID NO: 14
181 <211> LENGTH: 8
182 <212> TYPE: PRT
183 <213> ORGANISM: Homo sapiens
185 <400> SEQUENCE: 14
186 Arg Phe Pro Pro Thr Ala Thr Ile
187 1 5
190 <210> SEQ ID NO: 15
191 <211> LENGTH: 7
192 <212> TYPE: PRT
193 <213> ORGANISM: Homo sapiens
195 <400> SEQUENCE: 15
196 Thr Gln Arg Arg Asp Leu Gly
197 1 5
200 <210> SEQ ID NO: 16
201 <211> LENGTH: 11

```

RAW SEQUENCE LISTING

DATE: 04/22/2005

PATENT APPLICATION: US/10/032,037C

TIME: 07:54:31

Input Set : A:\10793-44.app

Output Set: N:\CRF4\04222005\J032037C.raw

```

202 <212> TYPE: PRT
203 <213> ORGANISM: Homo sapiens
205 <400> SEQUENCE: 16
206 Lys Phe Pro Gly Gly Thr Val Arg Gly Leu Lys
207   1           5           10
210 <210> SEQ ID NO: 17
211 <211> LENGTH: 12
212 <212> TYPE: PRT
213 <213> ORGANISM: Homo sapiens
215 <400> SEQUENCE: 17
216 Gly Phe Pro Val Ile Val Glu Glu Arg Gln Ser Thr
217   1           5           10
220 <210> SEQ ID NO: 18
221 <211> LENGTH: 10
222 <212> TYPE: PRT
223 <213> ORGANISM: Homo sapiens
225 <400> SEQUENCE: 18
226 Arg Phe Pro Gln Arg Val Asp Asn Arg Val
227   1           5           10
230 <210> SEQ ID NO: 19
231 <211> LENGTH: 8
232 <212> TYPE: PRT
233 <213> ORGANISM: Homo sapiens
235 <400> SEQUENCE: 19
236 Thr Gly Gln Ser Ile Lys Arg Ser
237   1           5
240 <210> SEQ ID NO: 20
241 <211> LENGTH: 6
242 <212> TYPE: PRT
243 <213> ORGANISM: Homo sapiens
245 <400> SEQUENCE: 20
246 Leu Thr His Pro Tyr Phe
247   1           5
250 <210> SEQ ID NO: 21
251 <211> LENGTH: 6
252 <212> TYPE: PRT
253 <213> ORGANISM: Homo sapiens
255 <400> SEQUENCE: 21
256 Leu Arg Pro Pro Glu Ser
257   1           5
260 <210> SEQ ID NO: 22
261 <211> LENGTH: 11
262 <212> TYPE: PRT
263 <213> ORGANISM: Homo sapiens
265 <400> SEQUENCE: 22
266 Thr Ser Lys Asn Thr Ser Ser Ser Lys Arg His
267   1           5           10
270 <210> SEQ ID NO: 23
271 <211> LENGTH: 12

```

RAW SEQUENCE LISTING

DATE: 04/22/2005

PATENT APPLICATION: US/10/032,037C

TIME: 07:54:31

Input Set : A:\10793-44.app

Output Set: N:\CRF4\04222005\J032037C.raw

```

272 <212> TYPE: PRT
273 <213> ORGANISM: Homo sapiens
275 <400> SEQUENCE: 23
276 Arg Tyr Tyr Cys Arg Ser Ser Asp Cys Thr Val Ser
277   1             5             10
280 <210> SEQ ID NO: 24
281 <211> LENGTH: 10
282 <212> TYPE: PRT
283 <213> ORGANISM: Homo sapiens
285 <400> SEQUENCE: 24
286 Phe Arg Arg Met Glu Thr Val Pro Ala Pro
287   1             5             10
290 <210> SEQ ID NO: 25
291 <211> LENGTH: 277
292 <212> TYPE: PRT
293 <213> ORGANISM: Homo sapiens
295 <400> SEQUENCE: 25
296 Met Lys Tyr Leu Leu Pro Thr Ala Ala Ala Gly Leu Leu Leu Ala
297   1             5             10             15
299 Ala Gln Pro Ala Met Ala Glu Val Gln Leu Val Glu Ser Gly Gly Gly
300             20             25             30
302 Val Val Arg Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly
303             35             40             45
305 Phe Thr Phe Asp Asp Tyr Gly Met Ser Trp Val Arg Gln Ala Pro Gly
306             50             55             60
308 Lys Gly Leu Glu Trp Val Ser Gly Ile Asn Trp Asn Gly Gly Ser Thr
309             65             70             75             80
311 Gly Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn
312             85             90             95
314 Ala Lys Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
315             100            105            110
317 Thr Ala Val Tyr Tyr Cys Ala Arg Met Arg Ala Pro Val Ile Trp Gly
318             115            120            125
320 Gln Gly Thr Leu Val Thr Val Ser Arg Gly Gly Gly Gly Ser Gly Gly
321             130            135            140
323 Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala
324 145             150            155            160
326 Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp
327             165            170            175
329 Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln
330             180            185            190
332 Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile
333             195            200            205
335 Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr
336             210            215            220
338 Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser
339 225             230            235            240
341 Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly Gly Thr Lys Leu
342             245            250            255

```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 04/22/2005
PATENT APPLICATION: US/10/032,037C TIME: 07:54:32

Input Set : A:\10793-44.app
Output Set: N:\CRF4\04222005\J032037C.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:36; Xaa Pos. 38
Seq#:210; N Pos. 803,804,805,806
Seq#:216; Xaa Pos. 3,4,14,15,25,26,42,43

VERIFICATION SUMMARY

DATE: 04/22/2005

PATENT APPLICATION: US/10/032,037C

TIME: 07:54:32

Input Set : A:\10793-44.app

Output Set: N:\CRF4\04222005\J032037C.raw

L:705 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:32
L:4360 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:210 after pos.:769
L:4659 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:216 after pos.:0
M:341 Repeated in SeqNo=216